



JINAN LONGJU MACHINERY

PRODUCT CATALOGUE >>>>>

• Craftsmanship First • Integrity in Business • Customer Foremost • Pragmatic Innovation

JINAN LONGJU MACHINERY

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BIOMASS EQUIPMENT

JINAN LONGJU MACHINERY

Crushing, drying, feeding, pelletizing and screening equipment for wood and agricultural biomass.

Explore standalone machines, supporting equipment, spare parts and complete pellet line configurations.

Jinan, Shandong, China



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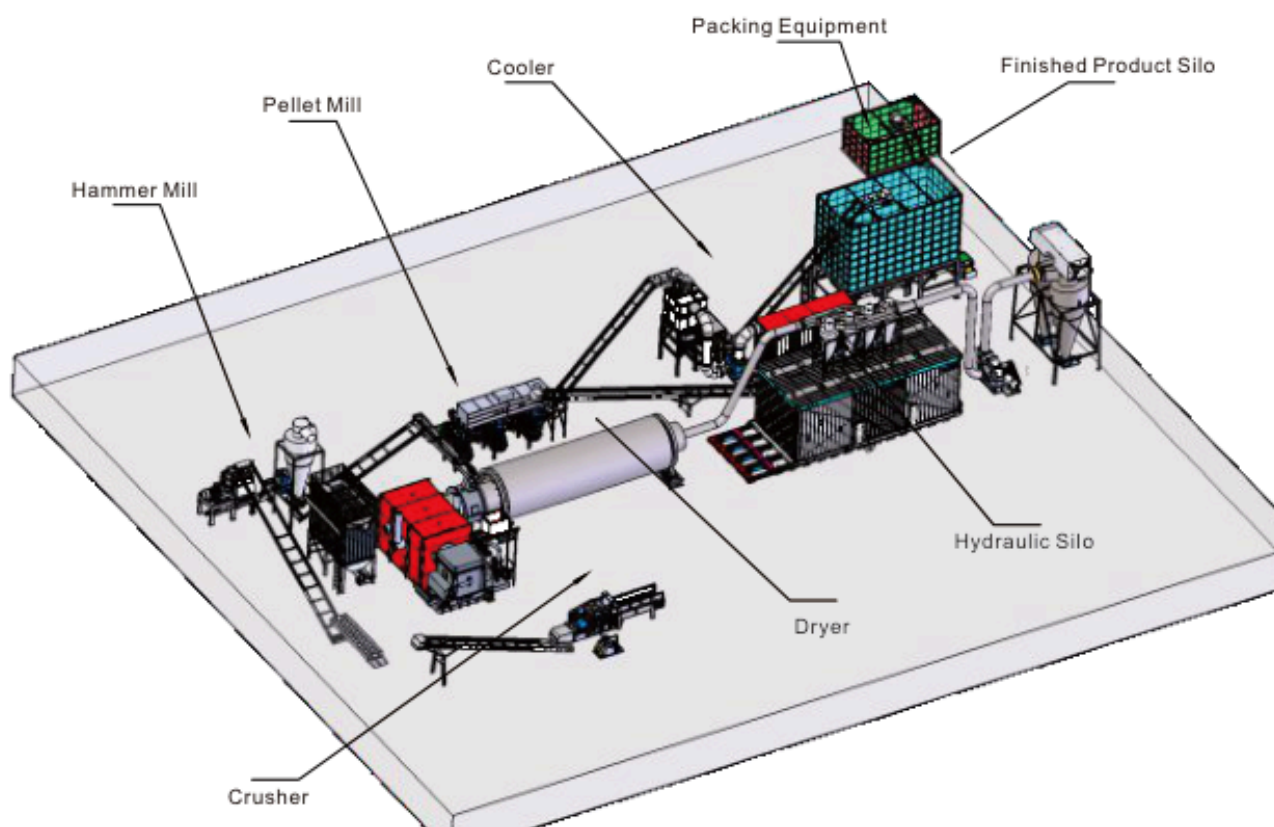
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YOUR PRODUCTION LINE



CONFIGURE A LINE FOR YOUR MATERIAL

1. Raw material type and dimensions
2. Initial moisture and target moisture
3. Required pellet output per hour
4. Available floor space and site layout
5. Local power supply and installation country

Send these details with your inquiry for machine selection and a line proposal.

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COMPREHENSIVE BIOMASS CRUSHER | MULTI-MATERIAL CRUSHING FOR PELLET PRODUCTION LINE

This series of comprehensive crushers are dedicated crushing equipment for biomass pellet production lines and biomass power plants. It addresses the difficulty of handling mixed raw materials. Logs, tree branches, boards, straw, construction formwork, wooden pallets, and large branches can be directly fed for crushing without pre-sorting, greatly reducing manual sorting workload.

Equipped with a chain plate conveyor feeding system. The automatic feeder adjusts feeding speed according to material load. It adopts heavy-duty rotor, high-strength forged main shaft, high-composite hammer heads and impact liners, with strong impact resistance. Suitable for 24-hour continuous heavy-duty production.



Core Advantages

- Strong material adaptability: logs, branch wood, boards, straw can be directly crushed; no pre-processing required.
- Variable-frequency feeding, intelligent anti-jamming, stable output without blockages.
- Hydraulic quick-open structure; mesh screens can be rapidly replaced to cut downtime.
- Heavy-duty welded rotors; all models support long-term continuous heavy load operation.
- Discharging particle size adjustable; matched with conveying equipment to fully support downstream pellet production lines.
- Complete model range: suitable for small, medium and large biomass pellet plants; stationary and mobile low-speed models optional.



Applicable Materials

Logs, branches, boards, offcuts, construction formwork, wooden pallets, bark, corn stalks and all kinds of biomass raw materials.

Model No.	1200-500	1400-600	1600-800	1800-800	2113	3113
Main Motor Power (kW)	132	160	220-250	280-315	280-315	315-400
Chain Plate Motor (kW)	7.5+4	11+7.5	15+11	18.5+11	22+15	30+18.5
Hydraulic Station Motor (kW)	4	4	5.5	7.5	7.5	11
Feeding Port Size (mm)	1200*500	1400*600	1600*800	1800*800	2113	3113
Processing Capacity (t/h)	8-12	12-15	15-25	25-30	30-35	45-55
Discharge Particle Size (mm)	50-80 adjustable	50-80 adjustable	50-80 adjustable	50-80 adjustable	50-80 adjustable	50-80 adjustable
Rotor Speed (r/min)	720	760	760	700	680	620
Complete Machine Weight(t)	12.5	17.5	21	28	36	48
Adaptable Materials	Branches, boards, straw, offcuts, logs, unprocessed wood pallets	Branches, boards, straw, offcuts, logs, unprocessed wood pallets	Branches, boards, straw, offcuts, logs, unprocessed wood pallets	Large-diameter logs, branches, roots, thick planks, large wood pallets	Large-diameter logs, branches, construction formwork, large pallets, power plant raw materials	Extra large-diameter raw materials, large pallets, large biomass power plant continuous production



HIGH-EFFICIENCY HAMMER MILL

Specially designed for biomass pellet production, widely used in biomass energy and feed processing industries. It can crush wood chips, bark, branches, cut corn stalks and other fibrous materials, as well as pellet raw materials. Different screen hole sizes are configurable for different industries to control finished particle size. It mainly consists of feeding bin, crushing chamber, rotor assembly, hammer pieces, fan, settling chamber and air lock. Hammer pieces are made of wear-resistant alloy with two corners reversible for extended service life. The mill is equipped with quick-open access doors for easy inspection, maintenance and screen replacement. Multiple models with different output capacities (1 - 30 t/h) available to meet diversified customer demands.



Core Advantages

- Hydraulic quick-open access doors: no heavy disassembly required; screens can be replaced rapidly, saving maintenance labor and time.
- Large processing capacity: single unit output reaches 20–25 t/h; large feeding inlet accepts bulk raw materials directly for high crushing efficiency.
- Optimized configuration: hammer pieces, liners and screens adopt high-abrasion resistant materials, low impact loss and extended service life.
- Integrated valve body structure: valve body integrated with mill, easy assembly, precise positioning, low assembly error and stable discharging.
- Robust welded frame and heavy base: stable operation with low vibration and low failure rate.
- Complete supporting options: connectable to belt conveyors, rotary dryers and pellet mills to form full biomass pellet production lines.
- Adjustable discharging particle size: interchangeable screens freely control finished particle size and powder fineness to satisfy multi-material requirements.

Applicable Materials

Logs, branches, roots, twigs, straw, stalks, bamboo and all biomass raw materials.

Remarks

Capacity varies with material humidity and raw material changes; iron removal device can be installed optionally.

Model	Power(kW)	Capacity(t/h)	Remarks
JLFS75*120	132-160kw	5-6	Equipped with matched models: spiral feeder, cyclone separator, bag filter, settling chamber, air lock valve, pipeline, feeding/discharging belt and electric control cabinet
JLFS1000-1600	185-200kw	8-10	
JLFS1200-1300	280-315kw	10-15	
JLFS1300-1500	285-315KW	15-20	
JLFS1500-2000	315-400kw	20-25	

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HIGH-EFFICIENCY ROTARY DRUM DRYER

SUBTITLE: CORE DRYING EQUIPMENT FOR BIOMASS PELLET PRODUCTION LINE

Supporting core drying equipment for biomass pellet production lines, one-stop solution for dewatering high-moisture materials.

The rotary drum dryer is mainly used for drying powdery, granular and small lump wet materials, widely applied in energy, fertilizer chemical and medical industries. It features large drying capacity, stable operation, low energy consumption, easy operation and high output.

Core Advantages

- Uniform drying and stable discharging. Equipped with special lifting plates to fully disperse materials and maximize heat exchange; no internal overheating or material scorching.
- Moisture content adjustable to guarantee finished product quality for downstream processes. Energy saving & low operating cost. Thickened thermal insulation layer with waste heat recycling to greatly boost thermal efficiency. Supports multiple heat sources: biomass burner, natural gas, coal, biogas etc. Flexible fuel selection cuts production costs.
- Large capacity for continuous 24h operation. Adaptable to automated factories, matching full sets of medium/large pellet production lines. Strong anti-overload performance, stable running without jamming.
- Robust structure & low maintenance. Thickened wear-resistant steel plates for drum body, supports and transmission parts; low vibration. Access doors for easy internal cleaning and replacement of spare parts. Dust removal and exhaust system for adjustable emission standards.



Type	Model	Configuration	Evaporation Capacity(t/h)
Single-cylinder Dryer	HYHG φ 1.5–12m	Main motor(7.5kW); Fan(15kW); Cyclone(Φ1400); Electric control cabinet	0.5-0.75
	HYHG φ 1.5–15m	Main motor(11kW); Fan(18.5kW); Cyclone(Φ1500); Electric control cabinet	0.5-0.75
	HYHG φ 1.6–18m	Main motor(15kW); Fan(22kW); Cyclone(Φ1600); Electric control cabinet	0.7-1
	HYHG φ 1.8–15m	Main motor(15kW); Fan(22kW); Cyclone(Φ1600); Electric control cabinet	1-1.3
	HYHG φ 1.8–18m	Main motor(15kW); Fan(22kW); Cyclone(Φ1600); Electric control cabinet	1-1.3
	HYHG φ 2.0–20m	Main motor(18.5kW); Fan(30kW); Cyclone(Φ1800); Electric control cabinet	1.4-2.0
	HYHG φ 2.0–24m	Main motor(18.5kW); Fan(30kW); Cyclone(Φ1800); Electric control cabinet	1.4-2.0
	HYHG φ 2.2–24m	Main motor(18.5kW); Fan(30kW); Cyclone(Φ1800); Electric control cabinet	1.7-2.5
	HYHG φ 2.4–24m	Main motor(22kW); Fan(37kW); Double cyclones(2-Φ1500); Electric control cabinet	2.2-3
Three-cylinder Dryer	HYHG φ 2.8–24m	Main motor(30kW); Fan(55kW); Double cyclones(2-Φ1400); Electric control cabinet	2.5-3.6
	HYHG φ 2.2–8-Ⅲ	Main motor(12kW); Fan(45kW); Double cyclones(2-Φ1200); Electric control cabinet	1.3-1.8
	HYHG φ 2.4–9-Ⅲ	Main motor(12kW); Fan(45kW); Double cyclones(2-Φ1200); Electric control cabinet	1.6-2.5
	HYHG φ 2.6–12-Ⅲ	Main motor(22kW); Fan(55kW); Double cyclones(2-Φ1400); Electric control cabinet	2.0-2.8
	HYHG φ 2.8–12-Ⅲ	Main motor(22kW); Fan(55kW); Double cyclones(2-Φ1400); Electric control cabinet	2.1-3.0
	HYHG φ 3.0–12-Ⅲ	Main motor(30kW); Fan(75kW); Double cyclones(2-Φ1500); Electric control cabinet	2.4-3.5
	HYHG φ 3.2–12-Ⅲ	Main motor(30kW); Fan(90kW); Double cyclones(2-Φ1500); Electric control cabinet	3.0-5.0



HYDRAULIC FEEDING BIN | BUFFER & UNIFORM FEEDING, CORE FEEDING EQUIPMENT FOR PRODUCTION LINE

Uniform feeding buffer equipment for biomass production lines. Solves bridging and material blocking problems. Equipped with thickened steel plates + wear liners and hydraulic breaking rakes. PLC intelligent linkage for automatic feeding speed adjustment and level alarm. Low foundation requirement, flexible installation to reduce labor, stabilize line output. Essential buffer feeding equipment for medium & large biomass production lines.



Core Advantages

- Breaks material bridging to eliminate blockages and realize continuous uniform feeding
- Thickened bin body + wear liners, impact resistant, suitable for bulk biomass materials
- Hydraulic reciprocating rake, strong thrust, stable & reliable feeding, low failure rate
- Full PLC linkage, material level monitoring & alarm, unattended operation available
- Multiple standard capacities, customized volume supported on site
- Perfectly matched with crushers, rotary drum dryers and pellet mills to complete biomass production lines

Applicable Materials

Crushed wood shavings, wood chips, branch logs, straw, crushed bark and other biomass raw materials.

Remarks

Customizable bin volume; optional material level alarm, dust cover and rain-proof shed. Can be connected to crushers, rotary drum dryers and pellet mills for full-line automatic linkage control.

Item / Model	YLC10	YLC20	YLC30	YLC50	YLC80	YLC120
Effective Volume (m³)	10	20	30	50	80	120
Matching Capacity (t/h)	1018	1825	2535	3555	5580	80110
Feeding Mode	Hydraulic reciprocating rake	Hydraulic reciprocating rake	Hydraulic reciprocating rake	Hydraulic reciprocating rake	Hydraulic reciprocating rake	Hydraulic reciprocating rake
Hydraulic Station Motor Power(kW)	7.5	11	15	18.5	22	30
Bin Body Material	Q235 steel + wear-resistant liner	Q235 steel + wear-resistant liner	Q235 steel + wear-resistant liner	Q235 steel + wear-resistant liner	Q235 steel + wear-resistant liner	Q235 steel + wear-resistant liner
Rake Form	Multi-group pushing rake	Multi-group pushing rake	Multi-group pushing rake	Multi-group pushing rake	Multi-group pushing rake	Multi-group pushing rake
Control Mode	PLC linkage, interlocked with downstream equipment	PLC linkage, interlocked with downstream equipment	PLC linkage, interlocked with downstream equipment	PLC linkage, interlocked with downstream equipment	PLC linkage, interlocked with downstream equipment	PLC linkage, interlocked with downstream equipment
Complete Machine Weight (t)	7.2	11.5	16	23	34	48

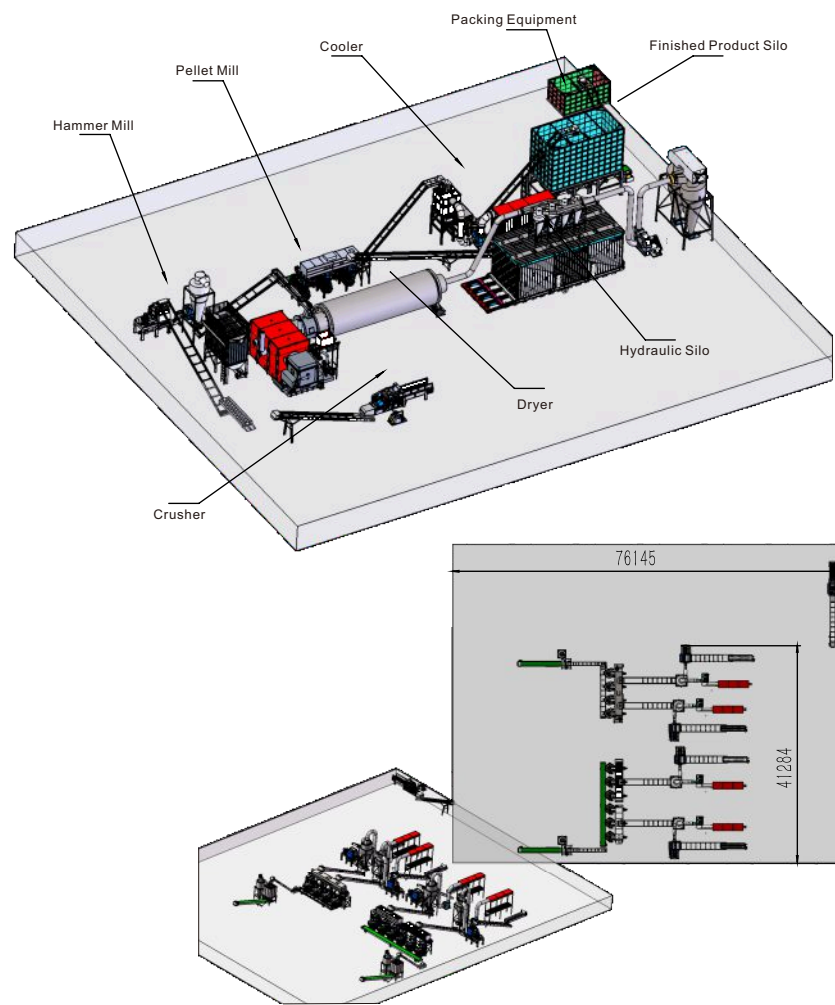
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BIOMASS PELLET MACHINE

A biomass pellet machine is a common pelletizing device in the biomass energy industry. It is dedicated equipment that crushes biomass raw materials such as branches and straw into pellets, serving as a new type of fuel forming machinery to replace coal. Our vertical ring-die ring-die pellet machine adopts a large-module hardened-surface reducer, delivering ample power output, stable output, low failure rate, and low production cost, especially suitable for biomass pelletizing. Our biomass pellet machine is suitable for pelletizing many raw materials, such as crop straw, corn straw, wheat straw, cotton straw; wood chips, wood shavings, furniture factory offcuts, rice husks, peanut shells, palm, melon seed shells, pasture grass, municipal waste, waste paper and form work, waste paper and cloth, medicinal residue, brewer's grains, and mushroom residue, etc.



Model 560 Pellet Mill



Model 850 Pellet Mill



Model 1050 Pellet Mill

Category	Model	Power (kW)	Pellet Size (mm)	Capacity (t/h)	Overall Dimension (mm)	Total Weight (T)
Vertical Ring Die	JL560	132/160	6-12	1.5-2	2200*1280*1640	5T-5.5T
	JL760	160	6-12	2-2.5	2350*1400*1750	6T
	JL2-850	220/250	8-12	3-4	2800*1720*2130	10.7-11T
	JL2-850	280/315	8-12	4-5	3100*1720*2300	13.5-14T
	JL3-1050	560	8-12	7-9	3300*2500*2700	25.5-26T
	JL4-1050	560	8-12	8-10	3300*2500*2700	26-26.5T



ROTARY CUTTER

It can crush various crop straws, such as corn straw, wheat straw, rice straw, alfalfa, chinese silvergrass, etc. It can also grind planks, wood strips and wood veneer with dimensions less than 800*100*10mm(thickness). Bulk materials can be fed directly into the rotary drum without pre-breaking for crushing.



Model	Main Shaft Speed (rpm)	Hammer Quantity	Drum Diameter (m)
200	2120	20	2
250	1800	18	2.5
75*100	2780	96	2
75*150	2780	156	2.5
75*150(S)	2780	312	3.0

VIBRATING SCREENER

Vibrating Screener

It features high efficiency, stable operation, reliable performance, small footprint, convenient installation & maintenance and easy screen replacement. It is widely used in energy, grain, feed, chemical, pharmaceutical and other industries.



Model	Capacity (t/h)	Power (kW)	Vibration Frequency	Exciting Force	Screening Area (mm)
60	1-2T	0.25	920	4000	1000*600
80	2-4T	0.25	920	5000	1500*800
110	3-6T	0.37	920	4000	1800*1000
150	5-10T	0.37	920	6000	2000*1200

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ROTARY SCREENER

Simple structure, stable operation and reliable screening. Equipped with cleaning device, large capacity and easy maintenance. Multi-stage screening available according to sieve hole sizes.

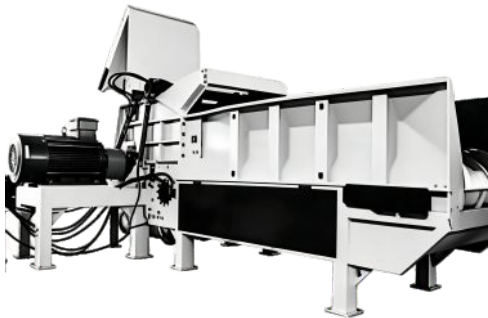
Model	Capacity(t/h)	Power(kW)
1x2	1-2	1.5
1.2x2	2-3	1.5
1.5x2.5	3-5	1.5
1.8x3	5-7	2.2
2.2x4		



WOOD PALLET CRUSHER

Simple structure, stable running and reliable screening. Fitted with cleaning device, high throughput and convenient maintenance. Multi-grade screening achievable by different sieve aperture sizes.

Model	Capacity (t/h)	Power (kW)	Feeding Port Size(mm)	Number of Hammers
C90150	7-14	250x2	1470	32
	6-12	200x2	1470	32
	5-10	315	1470	32
C2000	8-16	315x2	1870	48



AUXILIARY EQUIPMENT SERIES

Complete sets of supporting auxiliary equipment for biomass pellet production lines, including hydraulic feeding bin, rotary screener, rotary drum dryer, cooler, pulse dust collector, screw conveyor, vertical elevator and discharging bin. It realizes closed whole-process flow: material storage, separation, impurity removal, drying, moisture adjustment, pelletizing, dust removal, sealed transportation, vertical feeding and finished product temporary storage. The equipment operates efficiently to solve problems such as complex raw materials, multiple impurities and unstable moisture. It ensures stable production in workshops with minimal manual intervention and guarantees continuous stable running of the whole pellet line. Combinations can be flexibly configured according to output and site conditions. Customization is supported by the original factory for complete pellet plant projects of various capacities.





Ground Screw Conveyor



Packing Machine



Air Classifier



Biomass Burner



Material Fan



Pulse Dust Collector



Air Lock



Centrifugal Fan



Hydraulic Cylinder
Power Station



Screw Conveyor



Bearing Press



Cyclone Separator



Belt Conveyor



Cooler

SPARE PARTS SERIES

Our factory independently produces full-range spare parts for pellet mills, hammer mills, rotary drum dryers and complete pellet production lines, including ring dies, roller assemblies, hammer pieces, wear liners, screen meshes, reducers, conveyor blades and other core components. Manufactured with exquisite craftsmanship, these parts feature high wear resistance and good interchangeability, compatible with our machines and mainstream domestic models. In stock for fast delivery with favorable bulk prices. We provide professional technical support and one-stop procurement to ensure efficient stable equipment operation and reduce customer loss from downtime.



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